



6BK5

BEAM POWER TUBE

9-PIN MINIATURE TYPE

6BK5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 1.2 amp

Direct Interelectrode Capacitances:^o

Grid No.1 to plate 0.6 μ f

Grid No.1 to cathode & grid No.3,
grid No.2, and heater. 13 μ f

Plate to cathode & grid No.3,
grid No.2, and heater. 5 μ f

Mechanical:

Mounting Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length. 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip). 2" \pm 3/32"

Maximum Diameter 7/8"

Bulb T-6-1/2

Base Small-Button Noval 9-Pin (JETEC No.E9-1)

Basing Designation for BOTTOM VIEW 9BQ

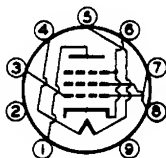
Pin 1 - Plate

Pin 2 - No Con-
nection

Pin 3 - Grid No.1

Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Cathode,

Grid No.3

Pin 7 - Grid No.1

Pin 8 - Grid No.2

Pin 9 - No Con-
nection

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 250 max. volts

GRID-No.2 (SCREEN) VOLTAGE 250 max. volts

DC GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value. 0 max. volts

GRID-No.2 INPUT. 2.5 max. watts

PLATE DISSIPATION. 9 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 100 max. volts

Heater positive with respect to cathode. 100 max. volts

Typical Operation and Characteristics:

Plate Voltage. 250 volts

Grid-No.2 Voltage. 250 volts

Grid-No.1 Voltage. -5 volts

Peak AF Grid-No.1 Voltage. 5 volts

Zero-Signal Plate Current. 35 ma

Max.-Signal Plate Current (Approx.). 37 ma

Zero-Signal Grid-No.2 Current. 3.5 ma

^o Without external shield.

MAY 1, 1955

TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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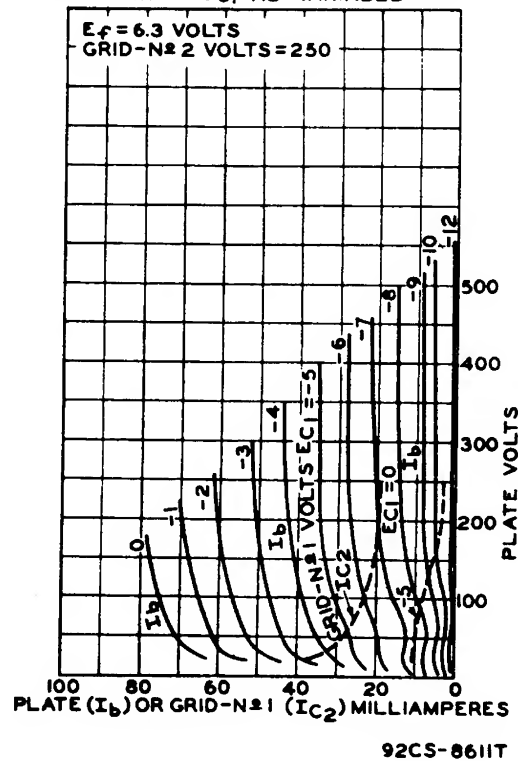
Max.-Signal Grid-No.2 Current (Approx.) . .	10	ma
Plate Resistance (Approx.)	0.1	megohm
Transconductance	8500	μ mhos
Load Resistance	6500	ohms
Total Harmonic Distortion (Approx.) . . .	7	%
Power Output	3.5	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max. megohm
For cathode-bias operation	0.5 max. megohm

AVERAGE PLATE CHARACTERISTICS WITH E_{C1} AS VARIABLE



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